BRAIN RESEARCH

VOL. 790 NOS. 1,2 **CONTENTS** **20 APRIL 1998**

Cited in Biological Abstracts (BIOSIS) – Chem. Abstracts – Index Medicus (MEDLINE) – Current Contents (Life Sci.) – Excerpta Medica (EMBASE) – Psychological Abstracts (PsycINFO) – Pascal et Francis (INIST-CNRS) – RIS (Reference Update) – Current Awareness in Biological Science (CABS)

Guidelines for the submission of manuscripts v

Interactive report

Translocation of phosducin in living neuroblastoma × glioma hybrid cells (NG 108-15) monitored by red-shifted green fluorescent protein
R. Schulz, K. Schulz, A. Wehmeyer and J. Murphy (Germany) 347

Research reports

Temporal ordering of pathogenic events following transient global ischemia
R.T. Bartus, R.L. Dean, S. Mennerick, D. Eveleth and G. Lynch (USA) 1

Antinociception produced by microinjection of morphine in the rat periaqueductal gray is enhanced in the foot, but not the tail, by intrathecal injection of α_1-adrenoceptor antagonists
F. Fang and H.K. Proudfit (USA) 14

Hypovolemia upregulates the expression of neuronal nitric oxide synthase gene in the paraventricular and supraoptic nuclei of rats
Y. Ueta, A. Levy, S.L. Lightman, Y. Hara, R. Serino, M. Nomura, I. Shibuya, Y. Hattori and H. Yamashita (Japan, UK) 25

Phasic activation of the locus coeruleus enhances responses of primary sensory cortical neurons to peripheral receptive field stimulation
B.D. Waterhouse, H.C. Moises and D.J. Woodward (USA) 33

Occurrence of a N-terminal proteolytic fragment of neurocan, not a C-terminal half, in a perineuronal net in the adult rat cerebrum
F. Matsui, M. Nishizuka, Y. Yasuda, S. Aono, E. Watanabe and A. Oohira (Japan) 45

Kainic acid increases the proliferation of granule cell progenitors in the dentate gyrus of the adult rat
W.P. Gray and L.E. Sundstrom (UK) 52

Drug conditioning induced by intrastriatal apomorphine administration
M. Pinheiro Carrera, F.C. Brunhara, R.K.W. Schwarting and C. Tomaz (Brazil, Germany) 60

Neuropeptide Y mRNA and serotonin innervation in the arcuate nucleus of *anorexia* mutant mice
J.-W. Jahng, T.A. Houpt, S.-J. Kim, T.H. Joh and J.H. Son (USA, South Korea) 67

Glutamate-like immunoreactivity in ascending spinofugal afferents to the rat periaqueductal grey
J.J. Azkue, J.M. Mateos, I. Elezgarai, R. Benítez, E. Lázaro, P. Streit and P. Grandes (Spain, Switzerland) 74

NMDA receptor antagonists potently suppress the spontaneous withdrawal signs induced by discontinuation of long-term diazepam treatment in Fischer 344 rats
M. Tsuda, T. Suzuki and M. Misawa (Japan) 82

Effects of oxyhemoglobin in vitro in cerebral arteries from normal animals and animals subject to subarachnoid hemorrhage or indomethacin treatment
Y.-R. Tran Dinh, S. Roche, M. Debdi, J. Seylaz and R. Sercombe (France) 91

Hippocampal NMDA receptor mRNA undergoes subunit specific changes during developmental lead exposure
T.R. Guilarte and J.L. McGlothan (USA) 98

Spontaneous epileptiform bursts and long-term potentiation in rat CA3 hippocampal slices induced by chaotic stimulation of mossy fibers
S. Ishizuka and H. Hayashi (Japan) 108

Kinetics and distribution of [^{59}Fe–^{125}I]transferrin injected into the ventricular system of the rat
T. Moos and E.H. Morgan (Denmark, Australia) 115

Regional differences between the immunohistochemical distribution of Ca^{2+}/calmodulin-dependent protein kinase II α and β isoforms in the brainstem of the rat
T. Ochiishi, T. Yamauchi and T. Terashima (Japan) 129

Peripheral axotomy influences the in vivo release of cholecystokinin in the spinal cord dorsal horn—possible involvement of cholecystokinin-B receptors
H. Gustafsson, G. De Araújo Lucas, E. Schött, C.-O. Stiller, P. Alster, Z. Wiesenfeld-Hallin and E. Brodin (Sweden) 141

(contents continued on p. 360)

CONTENTS DIRECT

ContentsDirect, the ***free*** e-mail alerting service, delivers the table of contents for this journal directly to your PC, prior to publication. The quickest way to register for **Contents Direct** is via the Internet at: **http://www.elsevier.nl/locate/ContentsDirect.** If you don't have access to the Internet you can register for this service by sending an e-mail message to cdsubs@elsevier.co.uk - specifying the title of the publication you wish to register for.

0006-8993(19980420)790:1/2;1-D

BRAIN RESEARCH

VOL. 790 NOS. 1,2 **CONTENTS** **20 APRIL 1998**

Cited in Biological Abstracts (BIOSIS) – Chem. Abstracts – Index Medicus (MEDLINE) – Current Contents (Life Sci.) – Excerpta Medica (EMBASE) – Psychological Abstracts (PsycINFO) – Pascal et Francis (INIST-CNRS) – RIS (Reference Update) – Current Awareness in Biological Science (CABS)

Guidelines for the submission of manuscripts v

Interactive report

Translocation of phosducin in living neuroblastoma × glioma hybrid cells (NG 108-15) monitored by red-shifted green fluorescent protein
R. Schulz, K. Schulz, A. Wehmeyer and J. Murphy (Germany) 347

Research reports

Temporal ordering of pathogenic events following transient global ischemia
R.T. Bartus, R.L. Dean, S. Mennerick, D. Eveleth and G. Lynch (USA) 1

Antinociception produced by microinjection of morphine in the rat periaqueductal gray is enhanced in the foot, but not the tail, by intrathecal injection of α_1-adrenoceptor antagonists
F. Fang and H.K. Proudfit (USA) 14

Hypovolemia upregulates the expression of neuronal nitric oxide synthase gene in the paraventricular and supraoptic nuclei of rats
Y. Ueta, A. Levy, S.L. Lightman, Y. Hara, R. Serino, M. Nomura, I. Shibuya, Y. Hattori and H. Yamashita (Japan, UK) 25

Phasic activation of the locus coeruleus enhances responses of primary sensory cortical neurons to peripheral receptive field stimulation
B.D. Waterhouse, H.C. Moises and D.J. Woodward (USA) 33

Occurrence of a N-terminal proteolytic fragment of neurocan, not a C-terminal half, in a perineuronal net in the adult rat cerebrum
F. Matsui, M. Nishizuka, Y. Yasuda, S. Aono, E. Watanabe and A. Oohira (Japan) 45

Kainic acid increases the proliferation of granule cell progenitors in the dentate gyrus of the adult rat
W.P. Gray and L.E. Sundstrom (UK) 52

Drug conditioning induced by intrastriatal apomorphine administration
M. Pinheiro Carrera, F.C. Brunhara, R.K.W. Schwarting and C. Tomaz (Brazil, Germany) 60

Neuropeptide Y mRNA and serotonin innervation in the arcuate nucleus of *anorexia* mutant mice
J.-W. Jahng, T.A. Houpt, S.-J. Kim, T.H. Joh and J.H. Son (USA, South Korea) 67

Glutamate-like immunoreactivity in ascending spinofugal afferents to the rat periaqueductal grey
J.J. Azkue, J.M. Mateos, I. Elezgarai, R. Benítez, E. Lázaro, P. Streit and P. Grandes (Spain, Switzerland) 74

NMDA receptor antagonists potently suppress the spontaneous withdrawal signs induced by discontinuation of long-term diazepam treatment in Fischer 344 rats
M. Tsuda, T. Suzuki and M. Misawa (Japan) 82

Effects of oxyhemoglobin in vitro in cerebral arteries from normal animals and animals subject to subarachnoid hemorrhage or indomethacin treatment
Y.-R. Tran Dinh, S. Roche, M. Debdi, J. Seylaz and R. Sercombe (France) 91

Hippocampal NMDA receptor mRNA undergoes subunit specific changes during developmental lead exposure
T.R. Guilarte and J.L. McGlothan (USA) 98

Spontaneous epileptiform bursts and long-term potentiation in rat CA3 hippocampal slices induced by chaotic stimulation of mossy fibers
S. Ishizuka and H. Hayashi (Japan) 108

Kinetics and distribution of [^{59}Fe–^{125}I]transferrin injected into the ventricular system of the rat
T. Moos and E.H. Morgan (Denmark, Australia) 115

Regional differences between the immunohistochemical distribution of Ca^{2+}/calmodulin-dependent protein kinase II α and β isoforms in the brainstem of the rat
T. Ochiishi, T. Yamauchi and T. Terashima (Japan) 129

Peripheral axotomy influences the in vivo release of cholecystokinin in the spinal cord dorsal horn—possible involvement of cholecystokinin-B receptors
H. Gustafsson, G. De Araújo Lucas, E. Schött, C.-O. Stiller, P. Alster, Z. Wiesenfeld-Hallin and E. Brodin (Sweden) 141

(contents continued on p. 360)

CONTENTS DIRECT

ContentsDirect, the ***free*** e-mail alerting service, delivers the table of contents for this journal directly to your PC, prior to publication. The quickest way to register for **Contents Direct** is via the Internet at: **http://www.elsevier.nl/locate/ContentsDirect.** If you don't have access to the Internet you can register for this service by sending an e-mail message to cdsubs@elsevier.co.uk - specifying the title of the publication you wish to register for.

0006-8993(19980420)790:1/2;1-D

(contents continued)

Neurally mediated hyperactive voiding in spontaneously hypertensive rats
J.M. Spitsbergen, D.B. Clemow, R. McCarty, W.D. Steers and J.B. Tuttle (USA) 151
Evidence for the interaction of glutamate and NK1 receptors in the periphery
S.M. Carlton, S. Zhou and R.E. Coggeshall (USA) 160
Presynaptic inhibition by noradrenaline of the EPSC evoked in neonatal rat sympathetic preganglionic neurons
T. Miyazaki, H. Kobayashi and T. Tosaka (Japan) 170
Regulation of contextual conditioning by the median raphe nucleus
V. Avanzi, V.M. Castilho, T.G.C.S. De Andrade and M.L. Brandão (Brazil) 178
Intraaccumbens injections of substance P, morphine and amphetamine: effects on conditioned place preference and behavioral activity
S. Schildein, A. Ågmo, J.P. Huston and R.K.W. Schwarting (Germany, France) 185
Timing of motion representation in the human visual system
Y. Kaneoke, M. Bundou and R. Kakigi (Japan) 195
Pergolide scavenges both hydroxyl and nitric oxide free radicals in vitro and inhibits lipid peroxidation in different regions of the rat brain
M. Gómez-Vargas, S. Nishibayashi-Asanuma, M. Asanuma, Y. Kondo, E. Iwata and N. Ogawa (Japan) 202
Glutamate neurotoxicity is associated with nitric oxide-mediated mitochondrial dysfunction and glutathione depletion
A. Almeida, S.J.R. Heales, J.P. Bolaños and J.M. Medina (Spain, UK) 209
8-OH-DPAT influences extracellular levels of serotonin and dopamine in the medial preoptic area of male rats
D.S. Lorrain, L. Matuszewich and E.M. Hull (USA) 217
Responses of single lingual nerve fibers to thermal and chemical stimulation
D.W. Pittman and R.J. Contreras (USA) 224
Morphine and anandamide coupling to nitric oxide stimulates GnRH and CRF release from rat median eminence: neurovascular regulation
V. Prevot, C.M. Rialas, D. Croix, M. Salzet, J.-P. Dupouy, P. Poulain, J.-C. Beauvillain and G.B. Stefano (France, USA) 236
Calpain-mediated regulation of NMDA receptor structure and function
X. Bi, Y. Rong, J. Chen, S. Dang, Z. Wang and M. Baudry (USA) 245
Lordosis-enhancing medial preoptic area lesions do not alter hypothalamic estrogen receptor- or progestin receptor-immunoreactivity in prepubertal female guinea pigs
D.H. Olster (USA) 254
Lowering ambient or core body temperature elevates striatal MPP + levels and enhances toxicity to dopamine neurons in MPTP-treated mice
L.Y. Moy, D.S. Albers and P.K. Sonsalla (USA) 264
Regionally specific induction of BDNF and truncated trkB.T1 receptors in the hippocampal formation after intraseptal injection of kainic acid
J.L. Venero and F. Hefti (USA) 270
Heat shock protein 72 restores cyclic AMP accumulation after heat shock in N18TG2 cells
H. Zensho, A. Nishida, M. Shimizu, Y. Uchitomi and S. Yamawaki (Japan) 278
Induction of cytokine-induced neutrophil chemoattractant in response to various stresses in rat C6 glioma cells
T. Uehara, I. Baba and Y. Nomura (Japan) 284
Thoracic spinal neuron responses to repeated myocardial ischemia and epicardial bradykinin
D.D. Gutterman, P.D. Pardubsky, M. Pettersen, M.L. Marcus and G.F. Gebhart (USA) 293
Gap junction disappearance in astrocytes and leptomeningeal cells as a consequence of protozoan infection
A.C. Campos de Carvalho, C. Roy, E.L. Hertzberg, H.B. Tanowitz, J.A. Kessler, L.M. Weiss, M. Wittner, R. Dermietzel, Y. Gao and D.C. Spray (USA, Brazil, Germany) 304

Short communications

Changes in the local metabolism of dopamine in the anterior and neural lobes but not in the intermediate lobe of the pituitary gland during nursing
G.M. Nagy, J.E. DeMaria and M.E. Freeman (USA) 315
Widespread expression of ecto-apyrase (CD39) in the central nervous system
T.-F. Wang and G. Guidotti (USA) 318
5-HT_{1B} receptor binding in degenerative movement disorders
M.E. Castro, J. Pascual, T. Romón, J. Berciano, J. Figols and A. Pazos (Spain) 323
Evidence that GABA augmentation of norepinephrine release is mediated by interneurons
J.M. Fiber and A.M. Etgen (USA) 329
Opposing effects of different steroid sulfates on $GABA_A$ receptor-mediated chloride uptake
M. El-Etr, Y. Akwa, P. Robel and E.E. Baulieu (France) 334
Spatial-tuning properties of auditory neurons in the optic tectum of the pigeon
J. Lewald and G.J. Dörrscheidt (Germany) 339
PACAP stimulates dopamine neuronal activity in the medial basal hypothalamus and inhibits prolactin
S.T. Anderson and J.D. Curlewis (Australia) 343

Author Index 357